

WHAT IS CLAIMED IS:

1. A solid-state image pickup device comprising:
 - a photoelectric conversion portion for generating signal electric charges in accordance with an amount of incident light;
 - a plurality of color filters; and
 - a flattening layer formed on said plurality of color filters,wherein a thickness of a projection or a recess on a surface of said flattening layer, provided on a region where color filters are adjacent to each other, is equal to or less than $0.2 \mu\text{m}$.
2. A solid-state image pickup device according to Claim 1, wherein a thickness of said flattening layer is at least $1.0 \mu\text{m}$.
3. A solid-state image pickup device according to Claim 1, wherein said plurality of color filters are formed according to divided exposure in which said solid-state image pickup device is divided into a plurality of exposure regions, and a desired pattern is formed by combining patterns of the divided exposure regions.
4. A solid-state image pickup device comprising:
 - a photoelectric conversion portion for generating signal electric charges in accordance with an amount of incident light;
 - a plurality of color filters; and
 - a condenser lens, having a shape to cause the incident light to pass through a region of a color filter having a uniform spectral characteristic, for

condensing the incident light onto said photoelectric conversion portion.

5. A solid-state image pickup device according to Claim 4, wherein said condenser lens has a shape to cause the incident light to pass through a region of a color filter having a uniform thickness.

6. A solid-state image pickup device according to Claim 4, wherein said condenser lens has a shape to cause an outermost optical path of the incident light to coincide with a surface of the color filter facing said condenser lens, at an inner position of $0.1 L - 0.25 L$ from both edges of a pixel, where L represents a pixel diameter.

7. A solid-state image pickup device according to Claim 4, further comprising a wiring layer formed between said photoelectric conversion portion and said plurality of color filters, wherein said wiring layer includes a wiring disposed so as not to cross an outermost optical path of the incident light.

8. A solid-state image pickup device according to Claim 4, wherein said condenser lens has a function of a color filter.

9. A solid-state image pickup device according to Claim 4, wherein said plurality of color filters are formed according to divided exposure in which said solid-state image pickup device is divided into a plurality of exposure regions, and a desired pattern is formed by combining patterns of the divided exposure regions.